

4. Katrina's parents kept this record of her growth from her birth until her 18th birthday.

Katrina's Height

Age (yr)	Height (in.)
birth	20
1	29
2	33.5
3	37
4	39.5
5	42
6	45.5
7	47
8	49
9	52
10	54
11	56.5
12	59
13	61
14	64
15	64
16	64
17	64.5
18	64.5



- Make a coordinate graph of Katrina's height data.
- During which time interval(s) did Katrina have her greatest "growth spurt"?
- During which time interval(s) did Katrina's height change the least?
- Would it make sense to connect the points on the graph? Why or why not?
- Is it easier to use the table or the graph to answer parts (b) and (c)? Explain.

5. Below is a chart of the water depth in a harbor during a typical 24-hour day. The water level rises and falls with the tides.

Effect of the Tide on Water Depth

Hours Since Midnight	0	1	2	3	4	5	6	7	8
Depth (m)	10.1	10.6	11.5	13.2	14.5	15.5	16.2	15.4	14.6

Hours Since Midnight	9	10	11	12	13	14	15	16
Depth (m)	12.9	11.4	10.3	10.0	10.4	11.4	13.1	14.5

Hours Since Midnight	17	18	19	20	21	22	23	24
Depth (m)	15.4	16.0	15.6	14.3	13.0	11.6	10.7	10.2

- At what time is the water the deepest? Find the depth at that time.
- At what time is the water the shallowest? Find the depth at that time.
- During what time interval does the depth change most rapidly?
- Make a coordinate graph of the data. Describe the overall pattern you see.
- How did you determine what scale to use for your graph? Do you think everyone in your class used the same scale?

